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POWER SUPPLY PARTICULARLY FOR PORTABLE DEVICE

ALCATEL ALSTHOM CO GENERAL ELECTRICITE

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Abstract:

PROBLEM TO BE SOLVED: To obtain a power supply circuit suitable to supply large electric power with superior energy efficiency by causing a converter to charge a super- capacitor with a constant current and monitoring a voltage across terminals.

SOLUTION: A circuit 1 is provided with an electro-chemical battery 10, a voltage converter coupled with the terminals of the battery and a super- capacitor 12 for feeding power to an external device 2. When the external device 2 consumes power, a terminal voltage U_s of the super- capacitor 12 is discharged down to the value under the first threshold value and a function area F2 turns a converter on via the functional area F1, depending on detection of the voltage having exceeded the such threshold. Next, the converter receives the power from the battery 10 and continues charging of the super-capacitor 12, until the terminal voltage U_s reaches the second threshold value with a constant current I_s controlled by the change of application efficiency, and the converter is turned off, depending on detection of the voltage having exceeded the threshold. As a result, the power supply circuit which is suitable for supplying large power with high efficiency can be obtained.

Int'l Class: H02M003155 H04B00726**Priority:** FR 94 9415335 19941220**MicroPatent Reference Number:** 001540334

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